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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for dynamically configuring a mobile ~~node, node~~ comprising:
issuing a first Dynamic Host Control Protocol ("DHCP") request;
receiving an address for a first home agent in response to the first DHCP request;
registering with the first home agent;
examining a registration reply from the first home agent to identify an extension, wherein
the extension includes an internal registration reply extension or an external
registration reply extension provided by the home agent; and
determining from the extension whether the mobile node is on one of an internal network
and an external network; and
roaming the mobile node within and/or between the internal network and the external
network.
2. (Currently Amended) The method according to claim 1 wherein the first home agent is
comprises one of an internal home agent and an external home agent; and the extension
includes one of an internal registration reply extension and an external registration reply
extension.
3. (Currently Amended) The method according to claim 2 wherein the mobile node is on
the internal network if the home agent address includes the internal registration reply
extension and on the external network if the home agent address includes the external
registration reply extension.

4. (Original) The method according to claim 1 further comprising receiving an address for a default Virtual Private Network ("VPN") gateway and an address for a default home agent in response to the first DHCP request.
5. (Currently Amended) The method according to claim 4 wherein the mobile node is on the internal network and the address of the default home agent ~~is~~ includes an address of an external home agent, the method further comprising storing the address for the default VPN gateway and the address for the external home agent.
6. (Currently Amended) The method according to claim 5 further comprising:
~~roaming from the internal network to the external network;~~
issuing a second DHCP request;
receiving an address for a second home agent in response to the second DHCP request;
registering with the address for the first home agent; and
registering with the second home agent if the registration attempt to the first home agent fails.
7. (Currently Amended) The method according to claim 6 wherein the second home agent ~~is~~ comprises an external home agent.
8. (Currently Amended) The method according to claim 4 wherein the mobile node is on the external network, the address for the default home agent ~~is~~ includes an address of an internal home agent, and the method further comprises establishing a secure connection with the default VPN gateway.

9. (Original) The method according to claim 8 further comprising registering the mobile node with the internal home agent on the internal network via the secure connection.
10. (Currently Amended) A ~~system~~system comprising:
a mobile node capable of issuing a first Dynamic Host Control Protocol ("DHCP") request;
a first home agent coupled to the mobile node, the first home agent capable of issuing a registration reply including an extension in response to a registration request from the mobile node; and
a DHCP server coupled to the mobile node and the first home agent, the DHCP server capable of providing a DHCP reply in response to the DHCP request from the mobile node, the DHCP reply including an address for the first home agent, the mobile node further capable of registering with the first home agent, examining the registration reply from the first home agent to identify the extension, wherein the extension includes an internal registration reply extension or an external registration reply extension provided by the home agent and determining from the extension whether the mobile node is on one of an internal network and an external network, wherein the mobile node is capable of roaming within and/or between the internal network and the external network.
11. (Original) The system according to claim 10 wherein the first home agent is one of an internal home agent and an external home agent, and the extension includes one of an internal registration reply extension and an external registration reply extension.

12. (Currently Amended) The system according to claim ~~1-11~~ wherein the mobile node is on the internal network if the home agent address includes the internal registration reply extension and on the external network if the home agent address includes the external registration reply extension.
13. (Original)The system according to claim 10 wherein the DHCP reply in response to the first DHCP request further includes an address for a default Virtual Private Network ("VPN") gateway and an address for a default home agent.
14. (Currently Amended) The system according to claim 13 wherein the mobile node is on the internal network, the address of the default home agent ~~is~~ includes an address of an external home agent and the mobile node is further capable of storing the address for the default VPN gateway and the address for the external home agent.
15. (Original) The system according to claim 14 further comprising a second home agent, and wherein:
- the mobile node is capable of roaming from the internal network to the external network
- and issuing a second DHCP request to the DHCP server,
- the DHCP server is capable of issuing an address for the second home agent in response to the second DHCP request, and
- the mobile node is further capable of registering with the first home agent, and
- registering with the second home agent if the registration attempt to the first home agent fails.

16. (Currently Amended) The system according to claim 15 wherein the second home agent ~~is comprises~~ an external home agent.
17. (Original) The system according to claim 13 wherein the mobile node is on the external network, the address for the default home agent is an address of an internal home agent, and the mobile node is further capable of establishing a secure connection with the default VPN gateway.
18. (Original) The system according to claim 17 wherein the mobile node is further capable of registering with the internal home agent on the internal network via the secure connection.
19. (Currently Amended) An article comprising a ~~machine-accessible computer-readable~~ medium having stored thereon comprising instructions that, when executed by a machine, cause ~~the~~ a machine to:
- issue a first Dynamic Host Control Protocol ("DHCP") request;
 - receive an address for a first home agent in response to the first DHCP request;
 - register with the first home agent;
 - examine a registration reply from the first home agent to identify an extension, wherein
the extension includes an internal registration reply extension or an external
registration reply extension provided by the home agent; and
 - determine from the extension whether ~~the~~ a mobile node is on one of an internal network and an external network; and

roaming the mobile node within and/or between the internal network and the external network.

20. (Currently Amended) The article according to claim 19 wherein the first home agent is comprises one of an internal home agent and an external home agent, ~~and the extension includes one of an internal registration reply extension and an external registration reply extension.~~
21. (Currently Amended) The article according to claim 20 wherein the ~~machine~~ mobile node is on the internal network if the home agent address includes the internal registration reply extension and on the external network if the home agent address includes the external registration reply extension.
22. (Original) The article according to claim 19 wherein the instructions, when executed by the machine, are further capable of causing the machine to receive an address for a default Virtual Private Network ("VPN") gateway and an address for a default home agent in response to the first DHCP request.
23. (Currently Amended) The article according to claim 22 wherein the machine is on the internal network, the address of the default home agent ~~is~~ comprises an address of an external home agent, and the instructions when executed by the machine, are further capable of storing the address for the default VPN gateway and the address for the external home agent.

24. (Original) The article according to claim 23 wherein the machine roams from the internal network to the external network, and the instructions, when executed by the machine, further cause the machine to:
issue a second DHCP request;
receive an address for a second home agent in response to the second DHCP request;
register with the first home agent; and
register with the second home agent if the registration attempt to the home agent fails.
25. (Currently Amended) The article according to claim 24 wherein the second home agent is comprises an external home agent.
26. (Currently Amended) The article according to claim 22 wherein the ~~machine~~ mobile node is on the external network, the address for the default home agent is an address of an internal home agent, and the instructions, when executed by the machine further cause the machine to establish a secure connection with the default VPN gateway.
27. (Original)The article according to claim 26 wherein the instructions, when executed by the machine, further cause the machine to register with the internal home agent on the internal network via the secure connection.

Claims 28-31 (Cancelled)